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The following corrections were allowed under Section 117
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Front page Heading (71) Applicants
for Robert McDonald Richie
read Robert McDonald Ritchie

(72) Inventors
for Robert McDonald Richie
read Robert McDonald Ritchie

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Fig. 1.

The drawing(s) originally filed was (were) informal and the print here reproduced is taken from a later filed formal copy.
The claims were filed later than the filing date within the period prescribed by Rule 25(1) of the Patents Rules 1982.
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(54) Glazing window frames

(57) A preformed glazing material comprising a flexible strip of plastics material (12), whose cross-section is such that it includes two outer surfaces (14, 16) which are mutually at right angles, each of which is coated with adhesive. One of the adhesives is of a first type which is adapted for adhesion to the material of a window frame, such as metal or timber, while the other is of a second type which is adapted for adhesion to glass.

In use a flat double-sided strip (10) whose opposite sides are also coated with the respective two types of adhesive, is applied to the glass receiving faces of the frame, the glass is offered up against it, and the right-angled strip is applied to the edges of the glass so that the adhesive surfaces adhere to the glass and the frame.

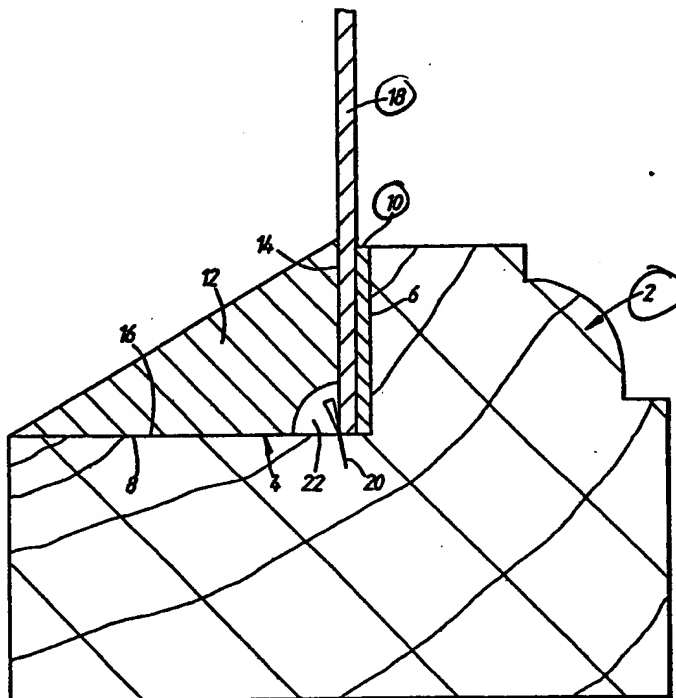


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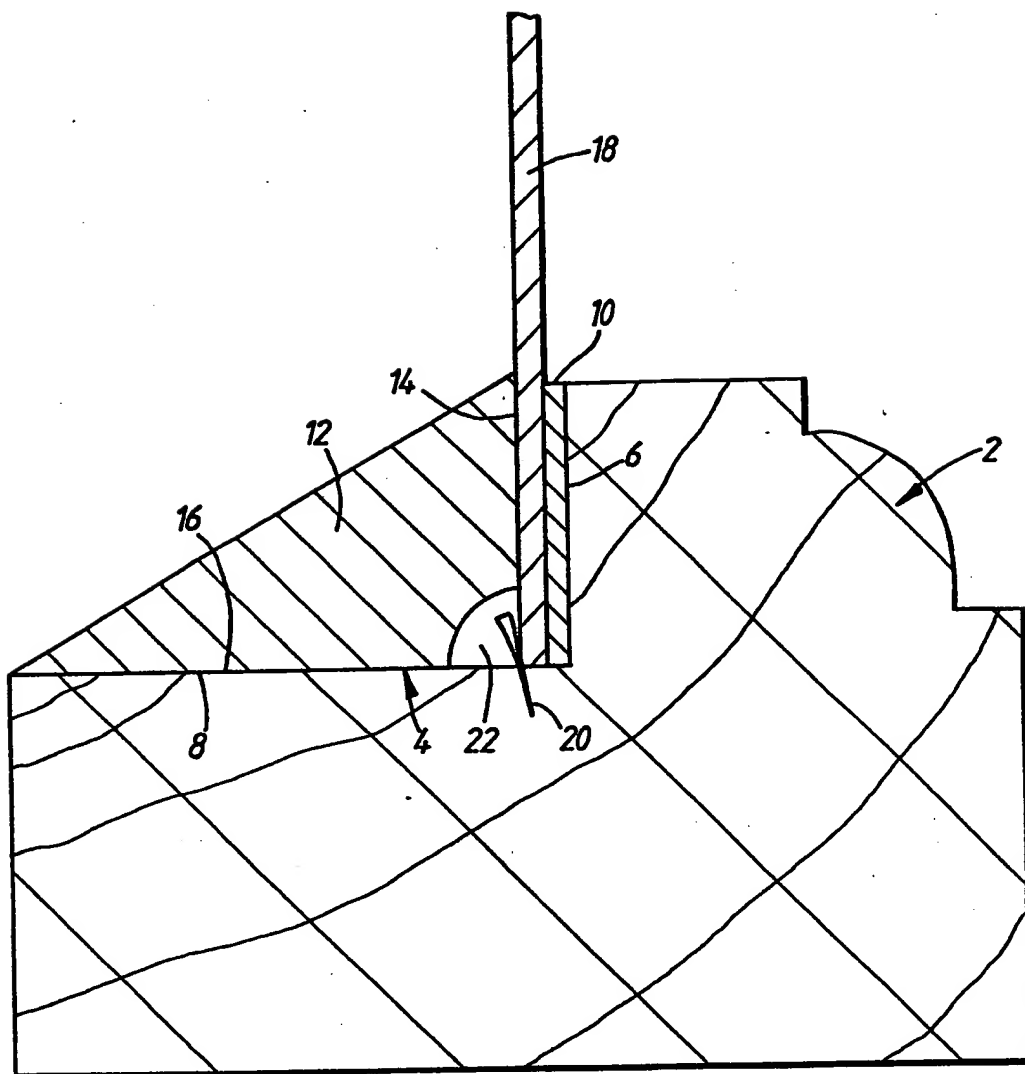


FIG. 1.

SPECIFICATION

Glazing window frames

- 5 This invention relates to a method of facilitating the glazing of window frames, and to a flexible tape for use in such glazing.

- The conventional methods of fixing glazing into metal or wooden frames normally involves the use of mastic materials such as putty, which require very skillful handling and suitable conditions, in order for a reasonable result to be obtained. The present invention seeks to provide a method of simplifying such glazing, and in particular the invention seeks to provide a method of glazing in which the fixing material is preformed.

- Accordingly, the present invention provides a method of glazing a rigid window frame which is provided with a suitable rebate to receive a sheet of glass, comprising the steps of (1) attaching a double sided adhesive strip to the face of the rebate; (2) offering up the sheet of glass against the outwardly facing adhesive surface of the strip to locate it in position; and (3) applying a further self adhesive strip, whose cross-section is such that it has two external faces which are mutually at right angles, and each of which are coated with adhesive, so that one of the surfaces makes contact with, and adheres to the outer surface of the glass, whilst the other surface makes contact with, and adheres to, the other face of the rebate.

- The invention also extends to a preformed glazing material comprising a flexible strip of plastics material, whose cross-section is such that it includes two outer surfaces which are mutually at right angles, each of which is coated with adhesive; one of the adhesives being of a first type which is adapted for adhesion to the material of a window frame, such as metal or timber, while the other is of a second type which is adapted for adhesion to glass.

- Preferably, the strip is made of the material known as "UPVC", and the adhesive for metal or timber is a "impact type" adhesive, whilst the adhesive for glass is of the ultraviolet curing type.

- 45 Preferably, there is also provided a flat flexible strip, for attaching the glass to the face of the rebate, which has adhesive of the said one type on one side, and adhesive of the said other type, on the other side.

- 50 One embodiment of the invention will now be described by way of example, with reference to the accompanying drawing which is a partial cross-section through a window frame which has been glazed using the method of the present invention.

- 55 The window frame 2 is formed with a conventional right angled rebate 4 to receive the glass sheet, the rebate having a normally outwardly facing vertical surface 6, and a base surface 8 which forms a right angle with the surface 6.

- 60 In order to facilitate glazing a frame having a rebate of this kind, the invention provides two kinds of adhesive coated flexible tapes, one of which, 10, comprises a flat strip which is applied to the face 6 of the rebate, and the other of which, 12, is generally right angled in cross-section. Each strip is coated

with a suitable adhesive on each side; thus the strip 12 carries a first type of adhesive on one surface 14, which is adapted to adhere to glass, and a second type of adhesive on its other surface 16, which is adapted to adhere to the material of the frame 2.

- 70 In use, the tape 10 is applied to the surface 6, and a sheet of glass 18 is then offered up against the adhesive surface of the strip 6, and optionally, particularly in the case of timber frames, small fixing pins 20 may be nailed into the frame around the edges of the glass to hold it in position.

- 75 The right angled strip 12 is then applied as a "filler" so as to fill some or all of the remaining portion of the rebate, with the adhesive surface 14 contacting the glass 18 and the adhesive surface 16 contacting the base 8 of the rebate. It will be noted that a recess or cutaway portion 22 is provided at the junction of the right angle of the member 12, so as to accommodate the fixing pins 20.

- 85 In the illustrated embodiment, the strips 10 and 12 are made of UPVC material, which is sufficiently resilient to accommodate variations in the surface smoothness of the rebate, but rigid enough to act as an effective retaining means for the glass.

- 90 Preferably, in manufacturing the fixing strips 10 and 12, the adhesive is applied to each of the surfaces of the strips as a double sided tape. It will be appreciated that two different types of tape will be required, both having an adhesive adapted to adhere to the UPVC material on one side, and one tape having an adhesive suitable for attachment to wood or metal, such as an impact adhesive, on the other side, whilst the other tape will be provided with an adhesive suitable for adhering to glass on the other side, such as an adhesive of the ultraviolet curing type. In order to facilitate production of these strips, they are preferably extruded continuously, with tape winding machines positioned next to the output end of the extruder so that the adhesive tapes can be applied directly to the surface of each strip as it emerges from the extruder.

- 105 It will also be appreciated that the above material and adhesives are given by way of example and any other suitable materials could be utilised.

110 CLAIMS

1. A method of glazing a rigid window frame which includes a suitable rebate to receive a sheet of glass, comprising the steps of

- 115 (a) providing a first flexible fixing strip having a pair of oppositely facing sides each carrying adhesive, and a second flexible fixing strip having a pair of mutually perpendicularly facing sides each carrying adhesive;

- 120 (b) applying the first strip to the face of the said rebate;

- (c) offering up the sheet of glass against the outwardly facing adhesive surface; and

- 125 (d) applying the second strip to the edges of the sheet so that one of its adhesive surfaces contacts the glass whilst the other contacts the side of the rebate.

2. A preformed glazing material comprising a flexible strip of plastics material, whose cross-

section is such that it includes two outer surfaces which are mutually at right angles, each of which is coated with adhesive; one of the adhesives being of a first type which is adapted for adhesion to the material of a window frame, such as metal or timber, while the other is of a second type which is adapted for adhesion to glass.

3. A glazing strip according to claim 2 in which a recess or cutaway portion is provided at the junction of the two said outer surfaces.

4. A flat preformed flexible strip of plastics material having a first adhesive, adapted for adhesion to the material of a window frame on one side and a second adhesive, adapted for adhesion to glass, on the other side.

5. A glazing strip according to any of claims 2 to 4 comprising UPVC plastics material, the first adhesive being an "impact type" adhesive and the second adhesive being of the ultraviolet curing type.

6. A method of forming a flexible glazing strip according to claim 5 comprising the steps of:

(a) providing a first double sided adhesive tape carrying an adhesive suitable for attachment to plastics material on one side, and an impact adhesive suitable for wood or metal on the other side;

(b) providing a second double-sided adhesive tape carrying an adhesive suitable for attachment to plastics material on one side and an adhesive suitable for attachment to glass on the other side; and

(c) applying the plastic-adhesive side of each of the said adhesive tapes to a respective one of the said sides of the said preformed plastics strip.

7. A method of glazing substantially as herein described with reference to the accompanying drawings.